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Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method for servicing a cooling system for an electronic device, the method comprising:  
switching the electronic device from a normal operating mode wherein the electronic device generates heat to a reduced heat generating mode wherein the electronic device generates heat at a reduced rate;  
continuing to operate the electronic device in the reduced heat generating mode while the cooling system is being serviced; and,  
subsequently switching the electronic device from the reduced heat generating mode to the normal operating mode;  
wherein switching the electronic device from the normal operating mode to the reduced heat generating mode comprises reducing a clock frequency applied to the electronic device; and,  
wherein, in the normal operating mode the clock frequency is in excess of 1.5 GHz and in the reduced heat generating mode the clock frequency is less than 250 MHz.
2. (Cancelled)
3. (Currently Amended) A method according to claim 2 1 wherein reducing the clock frequency applied to the electronic device comprises reducing the clock frequency by 85% or more.

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4. (Cancelled)
5. (Cancelled)
6. (Original) A method according to claim 1 wherein switching the electronic device from the normal operating mode to the reduced heat generating mode comprises operating the electronic device at a reduced duty cycle.
7. (Original) A method according to claim 6 wherein operating the electronic device at a reduced duty cycle comprises operating the electronic device at a duty cycle of 25% or less.
8. (Original) A method according to claim 6 wherein operating the electronic device at a reduced duty cycle comprises issuing an alternating sequence of HALT and RESTART commands to the electronic device.
9. (Original) A method according to claim 8 wherein issuing the alternating sequence of HALT and RESTART commands to the electronic device comprises toggling a logic signal applied to a halt pin on the electronic device.
10. (Original) A method according to claim 8 wherein operating the electronic device at a reduced duty cycle also comprises reducing the duty cycle by way of a mechanism built into the electronic device.
11. (Original) A method according to claim 10 wherein the mechanism built into the electronic device

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comprises a mechanism operating according to the Advanced Configuration and Power Interface standard.

12. (Original) A method according to claim 6 wherein operating the electronic device at a reduced duty cycle comprises reducing the duty cycle by way of a mechanism built into the electronic device.
13. (Original) A method according to claim 10 wherein the mechanism built into the electronic device comprises a mechanism operating according to the Advanced Configuration and Power Interface standard.
14. (Original) A method according to claim 1 wherein switching the electronic device from the normal operating mode to the reduced heat generating mode comprises disabling one or more subsystems within the electronic device.
15. (Original) A method according to claim 14 wherein the one or more systems comprise a cache memory.
16. (Original) A method according to claim 1 wherein the electronic device comprises a data processor.
17. (Original) A method according to claim 1 comprising monitoring a temperature of the electronic device while the electronic device continues to operate in the reduced heat generating mode.
18. (Original) A method according to claim 17 comprising displaying the temperature of the

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electronic device on a display while operating the electronic device in the reduced heat generating mode.

19. (Original) A method according to claim 18 wherein the display is located in a position where it is visible to a person who is viewing the cooling system for the electronic device through an access opening in a housing.
20. (Original) A method according to claim 17 comprising, at least in part on the basis of the monitored temperature, computing an estimated time until the temperature of the electronic device reaches a threshold value and displaying the estimated time.
21. (Original) A method according to claim 17 comprising causing the electronic device to be shut down in the event that the temperature of the electronic device reaches a threshold value.
22. (Original) A method according to claim 21 comprising switching the electronic device from the normal operating mode to the reduced heat generating mode upon a person initiating a first signal indicating that the person is ready to service the cooling system.
23. (Original) A method according to claim 22 comprising switching the electronic device from the reduced heat generating mode to the normal operating mode upon a person initiating a second signal indicating that the person has completed servicing the cooling system.

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24. (Original) A method according to claim 22 wherein the first signal is generated in response to the person activating a control.
25. (Original) A method according to claim 22 wherein the first signal is generated in response to the person disconnecting the cooling system from a source of electrical power.
26. (Original) A method according to claim 23 wherein the first signal is generated in response to disconnection of the cooling system from a source of electrical power and the second signal is generated in response to reconnection of the cooling system to the source of electrical power.
27. (Original) A method according to claim 26 wherein the cooling system comprises a fan and servicing the cooling system comprises replacing the fan.
28. (Original) A method according to claim 17 comprising indicating the temperature of the electronic device by way of an audible signal while operating the electronic device in the reduced heat generating mode.
29. (Original) A method according to claim 1 wherein the cooling system comprises a fan and servicing the cooling system comprises replacing the fan.
30. (Cancelled)
31. (Currently Amended) Electronic apparatus comprising:  
a heat generating electronic device;

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a cooling system operational to cool the electronic device;  
a maintenance procedure controller configured to:

switch the electronic device from a normal operating mode, wherein the electronic device generates heat, to a reduced heat generating mode, wherein the electronic device generates heat at a reduced rate, upon detection of a signal indicating that the cooling system is about to be serviced; and,

switch the electronic device from the reduced heat generating mode to the normal operating mode upon detection of a signal indicating that servicing of the cooling system has been completed;

a clock generator operative to generate a clock signal supplied to the electronic device;

wherein the maintenance procedure controller is connected to control a frequency of the clock signal; and,

wherein, in the normal operating mode the frequency of the clock signal is in excess of 1.5 GHz and in the reduced heat generating mode the frequency of the clock signal is less than 250 MHz.

32. (Cancelled)

33. (Cancelled)

34. (Currently Amended) Electronic apparatus according to claim 32 ~~31~~ wherein the maintenance procedure controller is connected to control a duty cycle of the electronic device.

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35. (Original) Electronic apparatus according to claim 34 wherein the electronic device comprises a halt pin and the maintenance procedure controller is configured to apply a logic signal to the halt pin to control the duty cycle of the electronic device.